

NC AQUARIUM at FORT FISHER RATE COMPARISON

Rate Type	Current Rate	New Rate	Monthly Increase/Decrease
Fixed Rate	475.56	494.79	19.23
Capital Recovery	62.35	75.28	12.93
Totals	537.91	570.07	32.16

Rate Type	Current Rate	New Rate	Annual Increase/Decrease
Fixed Rate	5,706.69	5,937.52	230.83
Capital Recovery	748.18	903.34	155.16
Totals	6,454.87	6,840.86	385.99

**WASTEWATER TREATMENT RATE DETERMINATION for NC AQUARIUM
FY 2024-2025 Rate Structure**

FLOW PERIOD 7/1/23 TO 6/30/24

ADMINISTRATION TOTALS	TREAT %	APPLIED COSTS		FIXED COSTS	VARIABLE COSTS		TOTAL	DEPRECIATED CAPITAL	FIXED %
SALARIES	15%	\$ 324,093.87	\$ 48,614.08	\$ 48,614.08	-	\$ 48,614.08	100%		
FICA	15%	\$ 24,793.18	\$ 3,718.98	\$ 3,718.98	-	\$ 3,718.98	100%		
GROUP INSURANCE	15%	\$ 25,342.30	\$ 3,801.34	\$ 3,801.34	-	\$ 3,801.34	100%		
RETIREMENT	15%	\$ 41,646.06	\$ 6,246.91	\$ 6,246.91	-	\$ 6,246.91	100%		
TRAVEL/TRAINING	15%	\$ 80.00	\$ 12.00	\$ 12.00	-	\$ 12.00	100%		
M&R EQUIP	5%	\$ -	\$ -	\$ -	-	\$ -	50%		
M&R Software	5%	\$ -	\$ -	\$ -	-	\$ -	50%		
PROFESSIONAL SERVICES	5%	\$ 18,800.00	\$ 470.00	\$ 470.00	\$ 470.00	\$ 940.00	50%		
INSURANCE, BONDS	18.13%	\$ -	\$ -	\$ -	-	\$ -	100%		
CAP PROJECTS EQUIP	5%	\$ -	\$ -	\$ -	-	\$ -	50%		
ADMINISTRATION TOTALS		\$ 434,755.40	\$ 62,863.31	\$ 62,863.31	\$ 470.00	\$ 63,333.31			
CAPITAL RECOVERY DEBT (w/beginning year)									
Notes Pymt- WWTP UPGRADE REVENUE BONDS 25 YR ('16)	100%	\$ 108,444.51	\$ 108,444.51	\$ 108,444.51	-	\$ 108,444.51	100%	\$ 1,728,127	
Total Capital Recovery Debt		\$ -	\$ -	\$ -	\$ -	\$ -			

WASTEWATER TREATMENT RATE DETERMINATION for NC AQUARIUM
FY 2024-2025 Rate Structure

FLOW PERIOD 7/1/23 TO 6/30/24

TREATMENT OPERATIONS	FIXED COSTS	VARIBALE COSTS	TOTAL	FIXED %	VAR %
SALARIES	331,729.07	-	331,729.07	100.00%	0%
OVERTIME	25,284.55	-	25,284.55	100.00%	0%
FICA TAXES	26,649.76	-	26,649.76	100.00%	0%
GROUP INS	40,785.13	-	40,785.13	100.00%	0%
RETIREMENT	55,450.49	-	55,450.49	100.00%	0%
401K Match	10,660.38	-	10,660.38	100.00%	0%
UNIFORMS	2,127.29	-	2,127.29	100.00%	0%
WORKMANS COMP	6,254.00	-	6,254.00	100.00%	0%
UNEMPLOYMENT	-	-	-	100.00%	0%
PHONES/CELLPHONES/DATA	6,012.68	-	6,012.68	100.00%	0%
ELECTRIC		145,320.57	145,320.57	0%	100%
TRAVEL	250.00	-	250.00	100%	0%
M&R BUILDINGS	8,163.53	-	8,163.53	100%	0%
M&R EQUIPMENT	19,844.74	19,844.74	39,689.48	50%	50%
M&R GROUND	1,476.90	1,476.90	2,953.80	50%	50%
M&R COMPUTERS	2,122.80	2,122.80	4,245.60	50%	50%
MAINTENANCE FLEET/CAPITAL OUTLAY					
a). OPERATIONAL EXPENSE FOR WWTP (813)	4,874.31	4,874.31	9,748.62	50%	50%
b). CAPITAL OUTLAY (PROJECT FUND)	-	-	-	50%	50%
CHEMICALS & LAB FEES	-	185,877.11	185,877.11	0%	100%
SUPPLIES	1,922.92	1,922.92	3,845.84	50%	50%
SMALL TOOLS	1,444.36	1,444.36	2,888.72	50%	50%
CONTRACT SERVICES	-	188,376.38	188,376.38	0%	100%
PROFESSIONAL SERVICES	-	44,446.71	44,446.71	0%	100%
PLANT RENOVATION	31,452.90		31,452.90	100%	0%
RENTAL OF PROPERTY	27,665.00	-	27,665.00	100%	0%
LIABILITY INSURANCE	20,842.00	-	20,842.00	100%	0%
DUES & SUBSCRIPTIONS	99.99	-	99.99	100%	0%
PERMITS & FEES	21,685.00	-	21,685.00	100%	0%
PPE & SAFETY EQUIPMENT	3,126.70	-	3,126.70	100%	0%
CAPITAL PROJECTS EQUIP	-	-	-	50%	50%
TOTAL OPERATIONS COSTS (Page 2)	649,924.50	595,706.80	1,245,631.30		
TOTAL ADMINSTRATIVE COSTS (Page 1)	62,863.31	470.00	63,333.31		
TOTAL APPLIED COSTS	712,787.81	596,176.80	1,308,964.61		

**WASTEWATER TREATMENT RATE DETERMINATION for NC AQUARIUM at FORT FISHER
FY 2024-2025 Rate Structure**

FLOW PERIOD 7/1/23 TO 6/30/24

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Rate Calculation and Summary

Monthly Fixed Cost

Actual Sewerage Flows:

Annual Flow from Carolina Beach	272,945,200	
Annual Flow from Kure Beach (1)	59,195,800	
Projected Annual Flow from NC Aquarium	7,300,000	(Based on 80% of allocated flow)
Total Flow at WWTP (2)	332,141,000	
Average Annual Flow by Kure Beach (1 ÷ 2)	17.822%	

Percentage Allocation of Total Flow:

Total Flow allocated to Kure Beach	727,784	GPD
Total NPDES permitted plant model period	3	MGD
Percentage of flow allocated to Kure Beach	24.259467%	
Total Flow allocated to NC Aquarium	25,000	GPD

Percentage of flow allocated to NC Aquarium	0.8330%
TOTAL flow % allocated to Kure Bch/NC Aquarium	25.092467%

Fixed Operations Costs from page 2	712,787.81
Fixed Capital Recovery Costs from page 1	108,444.51

	Annual	Monthly
Fixed Operations Costs	\$ 712,787.81	
Fixed % Rate for Fixed Operations Costs	0.8330%	
Annual Fixed Rate for NC Aquarium Fixed Operations Cost	\$ 5,937.52	\$ 494.79
Fixed Capital Recovery Costs	\$ 108,444.51	
Fixed % Rate for Capital Recovery Costs	0.8330%	
Annual Fixed Rate for NC Aquarium Capital Recovery Costs	\$ 903.34	\$ 75.28
Total Annual Fixed Operations & Capital Recovery Costs for NC Aquarium	\$ 6,840.87	\$ 570.07

Gallonge Rate from Variable Costs - Not Applicable

	Annual	Monthly
Total Fixed Rate cost for NC Aquarium for Wastewater Treatment	\$ 6,840.87	\$ 570.07

Wastewater Treated

FLOW PERIOD 7/1/23 TO 6/30/24

Month	Carolina Beach Flow	Kure Beach Flow	Total Flow	KB's Mthly % of Total Flow
Jul-23	31,046,300	8,005,700	39,052,000	21%
Aug-23	32,382,700	8,350,300	40,733,000	21%
Sep-23	30,748,200	7,928,800	38,677,000	21%
Oct-23	25,929,000	4,634,000	30,563,000	15%
Nov-23	16,059,000	3,337,000	19,396,000	17%
Dec-23	19,970,000	3,898,000	23,868,000	16%
Jan-24	18,716,000	3,248,000	21,964,000	15%
Feb-24	16,407,000	2,869,000	19,276,000	15%
Mar-24	20,594,000	3,934,000	24,528,000	16%
Apr-24	19,665,000	4,052,000	23,717,000	17%
May-24	20,612,000	4,242,000	24,854,000	17%
Jun-24	20,816,000	4,697,000	25,513,000	18%
	272,945,200	59,195,800	332,141,000	18%

PRIOR YEAR FLOW
Wastewater Treated

FLOW PERIOD 7/1/22 TO 6/30/23

Month	Carolina Beach Flow	Kure Beach Flow	Total Flow	KB's Mthly % of Total Flow
Jul-22	40,054,500	10,328,500	50,383,000	20%
Aug-22	28,532,500	7,357,500	35,890,000	21%
Sep-22	24,849,300	6,407,700	31,257,000	21%
Oct-22	21,620,000	5,575,000	27,195,000	21%
Nov-22	18,090,200	4,664,800	22,755,000	21%
Dec-22	18,056,800	4,656,200	22,713,000	21%
Jan-23	18,874,100	4,866,900	23,741,000	20%
Feb-23	20,441,000	5,271,000	25,712,000	21%
Mar-23	21,320,300	5,497,700	26,818,000	21%
Apr-23	24,982,100	6,441,900	31,424,000	20%
May-23	22,594,700	5,826,300	28,421,000	20%
Jun-23	26,619,000	6,864,000	33,483,000	20%
	286,034,500	73,757,500	359,792,000	21%

Variance between FY22/23 and FY23/24	(13,089,300)	(14,561,700)	(27,651,000)
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NC Aquarium
7/1/2024-6/30/2025
Based On Audited Numbers

<i>Month</i>	<i>Year</i>	<i>Monthly Gallons</i>	<i>Amount Paid</i>	<i>Adjusted Amount Due to Audit</i>	<i>Difference</i>
July	2024	No Data	537.91	570.07	32.16
August	2024	No Data	537.91	570.07	32.16
September	2024	No Data	537.91	570.07	32.16
October	2024	No Data	537.91	570.07	32.16
November	2024	No Data	537.91	570.07	32.16
December	2024	No Data	537.91	570.07	32.16
January	2024	No Data	537.91	570.07	32.16
February					0.00
March					0.00
April					0.00
May					0.00
June					0.00
Total Due for 2024/2025					225.12

Total Due from Aquarium

\$ 225.12